SEQUENCE LISTING

<110>	Japan Science And Technology Corporation
<120>	Nucleic acid which may bind specifically to proteins being effectors for Ras
<130>	JA900391
<160>	60
<220>	1 108 RNA Artificial Sequence protein bind RNA aptamer 1
	ucag aauaaacgcu caacugauca auggcguaca auggauucgu ucucauaacc 6 cuua ccccuuggac ugauucgaca ugaggccccu gcagggcg 10
<212> <213> <220>	2 107 RNA Artificial Sequence protein bind RNA aptamer 2
	ucag aauaaacgcu caacugauca auggcguaca auggauucgu ucucauaacc 6 cuua ccccuggacu gauucgacau gaggccccug cagggcg 10
<210> <211> <212> <213> <220> <221> <223> <400>	3 108 RNA Artificial Sequence protein bind RNA aptamer 3
	ucag aauaaacgcu caacugauca auggcguaca auggauucgu ucucauaacc 60 cuua ccccuuggac ugcuucgaca ugaggccccu gcagggcg 100
<210><211><211><212><213><220>	4 108 RNA Artificial Sequence

<221> <223> <400>	protein bind RNA aptamer 4					
	ucag aauaaacgcu cuua ccccuuggac				ucucauaacc	60 108
<210> <211> <212> <213> <220> <221> <223> <400>	Artificial Sequent protein bind	ience				
	ucag aauaaacgcu cuua cuccuuggac				ucucauaacc	60 108
<210> <211> <212> <213> <220> <221> <223> <400>	6 108 RNA Artificial Sequence protein bind RNA aptamer 6	ience				
	ucag aauaaacgcu cuua ccccuuggac				ucucauaacc	60 108
<210> <211> <212> <213> <220> <221> <223> <400>	7 108 RNA Artificial Sequ protein bind RNA aptamer 7	ience				
	ucag aauaaacgcu ccuu accccuugga				uucucauaac	60 108
<210><211><211><212><213><220><221><223><400>	8 108 RNA Artificial Sequence protein bind RNA aptamer 8	ience				
gggagaı	ucag aauaaacgcu	caauugaaga	ucguacaaug	gauucgauca	uaacccgaag	60

uuuuuaa	aaca cucuuuaccu guauucgaca ugaggccccu gcagggcg	108
<212>	9 108 RNA Artificial Sequence	
	protein bind RNA aptamer 9	
	ucag aauaaacgcu caaucgaguc cacgaacauu acauauuuga acacuucagc caug cuuaguacua uccuucgaca ugaggccccu gcagggcg	60 108
<211> <212> <213>	10 108 RNA Artificial Sequence	
<223>	protein bind RNA aptamer 10	
	ucag aauaaacgcu caauauuacc auagccuuga gguaaacaau uuagcacacc cacg aacuaugaac ucauucgaca ugaggccccu gcagggcg	60 108
<211><212><213><220><221>	11 107 RNA Artificial Sequence protein bind	
<400>	RNA aptamer 11	
	ucag aauaaacgcu caacuugagc caauuaaaag auuuacaaca agaacaugaa agcg auaauaauac gauucgacau gaggccccug cagggcg	60 107
<211><212><213><220><221>	12 108 RNA Artificial Sequence protein bind	
	RNA aptamer 12	
	ucag aauaaacgcu caagcgacaa gcagcagaua aaguugagcg caacgccgcu ccaa auuaacaugu auguucgaca ugaggccccu gcagggcg	60 108
	13 107	

<212> <213>	RNA Arti	ficial Sequ	ience				
	protein bind						
		aptamer					
<400>	13						
				uaaguccgau gaggccccug		accuauuauu	60 107
	14						
	108						
<212>		ficial Sequ	ience				
<220>							
		ein bind aptamer					
<400>	14	apcamer					
gggagaı	ıcag	aauaaacgcu	caagcaguaa	uccacuugua	auugaaugua	gaugccauau	60
agaguu	auua	guaauccgaa	uuguucgaca	ugaggccccu	gcagggcg		108
<210>	15						
<211> <212>	108						
		ficial Sequ	ience				
<220>							
		ein bind					
<223> <400>	RNA 15	aptamer					
(400)	13						
				gcacaccaug ugaggccccu		ucugcuucgc	60 108
<210>	16						
<211>	108						
<212>	RNA						
<213> <220>	Arti	ficial Sequ	ience				
	prot	ein bind					
<223>	_	aptamer					
<400>	16						
	_	_		uaauaauuac	_	cuuacucuug	60
auaaaug	gcuu	ugcuuuuggu	uaauucgaca	ugaggccccu	gcagggcg		108
<210>	17						
<211> <212>	108 RNA						
<213>		ficial Sequ	ience				
<220>		_					
		ein bind					
<223>	KWA	aptamer					

				aguccaugac ugaggccccu		gauaguccua	60 108
<210><211><211><212><213><223>	18 108 RNA Arti	ficial Sequ	lence				
		ein bind					
<223>		aptamer					
<400>	18						
				aaauuguggu ugaggccccu		uaagggcaac	60 108
<210>	19						
<211>	107						
<212>	RNA						
<213>	Arti	ficial Sequ	ience				
<220>	2224	oin bind					
<221> <223>		ein bind aptamer					
<400>	19	apcamer					
				cgacggucug		gcgaaccgug	60
auuagug	guac	aaggauucgg	uuuucgacau	gaggccccug	cagggcg		107
<210>	20						
<211>	106						
<212>	RNA						
<213>	Arti	ficial Sequ	ience				
<220> <221>	nrot	ein bind					
<223>	_	aptamer					
<400>	20	ap camer					
				aggccccugc		cucaauugca	60
ucucauç	juau	aucuagucca	auucgacaug	aggeeeeuge	agggcg		106
<210>	21						
<211><212>	105						
<212> <213>	RNA	ficial Sequ	ience				
<220>	WT C1	riciai sequ	CIICE				
	prot	ein bind					
<223>		aptamer					
<400>	21	_					
~~~~							
				cuggaguaau ggccccugca		accucauuaa	60 105

```
<210> 22
<211> 108
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 22
gggagaucag aauaaacgcu caaggguaag ggugagcagu ucaagauggu aacuggcauu
                                                                          60
cauuugaaga aagguuggua gacuucgaca ugaggccccu gcagggcg
                                                                          108
<210> 23
<211> 108
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 23
gggagaucag aauaaacgcu caaggguaag ggugagcagu ucaagauggu aaccggcauu
                                                                          60
cauuugaaga aagguuggua aacuucgaca ugaggccccu gcagggcg
                                                                          108
<210> 24
<211> 101
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 24
gggagaucag aauaaacgcu caacuuggug uaguguucaa gugagauaua guauaagguu
                                                                          60
auuguugugc gaacgguucg acaugaggcc ccugcagggc g
                                                                          101
<210> 25
<211> 100
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 25
gggaguggag gaauucaucg aggcauaugu cgacuccguc uuccuucaaa ccaguuauaa
                                                                          60
auugguuuua gcauaugccu uagcgacagc aagcuucugc
                                                                          100
<210>
      26
<211> 98
<212> RNA
```

<213> Artificial Sequence

	protein bind RNA aptamer 26				
	ggag gaauucaucg aggcaugacc o		guagggguaa	aaauuaucuu	60 98
<213> <220> <221>	27 90 RNA Artificial Sequence  protein bind RNA aptamer 27				
	ggag gaauucaucg aggcauaugu d uuua gcauaugccu uagcgacagc	cgacuccguc	uuccuucaaa	ccaguuauaa	60 90
<220> <221>					
	ggag gaauucaucg aggcauaugu d uuua gcauaugccu	cgacuccguc	uuccuucaaa	ccaguuauaa	60 80
<212><213><220><221>	29 60 RNA Artificial Sequence protein bind RNA aptamer 29				
cugauc	aaug gcguacaaug gauucguucu d	cauaaccaaa	acccuuaccc	cuuggacuga	60
<211><212><213><220><221>		•			
cugauc	aaug gcguacaaug gauucguucu d	cauaaccaaa	acccuuaccc	cuggacuga	59

```
<210> 31
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 31
cugaucaaug gcguacaaug gauucguucu cauaaccaaa acccuuaccc cuuggacugc
                                                                        60
<210> 32
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 32
cugaucaaug gcguacaaug gauucgcucu cauaaccaaa acccuuaccc cuuggacugc
                                                                        60
<210> 33
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 33
cugaucaaug gcguacaaug gauucguucu cauaaccaaa acccuuacuc cuuggacugc
                                                                        60
<210> 34
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 34
cugaucaaug geguacaaug gauucguucu cauaaccaaa acccuuaccc cuuggacugu
                                                                        60
<210> 35
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
```

<400>	35	
uugacu	caau ggcguacaau ggauucguuc ucauaaccaa aacccuuacc ccuuggacug	60
<210>	36	
<211>		
<212>		
	Artificial Sequence	
<220>		
	protein bind	
	RNA aptamer	
<400>	36	
uugaag	aucg uacaauggau ucgaucauaa cccgaaguuu uuaaacacuc uuuaccugua	60
.210.	27	
	37	
<211>		
<212>		
<213>	Artificial Sequence	
	nuckojn bind	
	protein bind	
<400>	RNA aptamer	
<400>	37	
ucgagu	ccac gaacauuaca uauuugaaca cuucagcacc gaacaugcuu aguacuaucc	60
<210>	38	
<211>		
<212>		
	Artificial Sequence	
<220>		
<221>	protein bind	
	RNA aptamer	
<400>	=	
uauuac	caua gccuugaggu aaacaauuua gcacaccuga auacacgaac uaugaacuca	60
<210>	39	
<211>	59	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<221>	protein bind	
<223>	RNA aptamer	
<400>	39	
cuugago	ccaa uuaaaagauu uacaacaaga acaugaacgu gacagcgaua auaauacga	59
<210>	40	
<210>	60	
	RNA	
<213>	Artificial Sequence	
	in criticial ocqueree	

```
<220>
<221> protein bind
<223> RNA aptamer
<400> 40
gcgacaagca gcagauaaag uugagcgcaa cgccgcuaca gaaccaaauu aacauguaug
                                                                         60
<210> 41
<211> 59
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 41
ucgaaaguaa guccgauaca acacauaacc uauuauuuag cagcgauaau acaaauaag
                                                                         59
<210> 42
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 42
gcaguaaucc acuuguaauu gaauguagau gccauauaga guuauuagua auccgaauug
                                                                         60
<210> 43
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 43
cguaguagca caccaugacc uauuaaaucu gcuucgcaau quaccuuaac acauaaucag
                                                                         60
<210> 44
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 44
gaaugacuaa uaauuacaac agauaaccuu acucuugaua aaugcuuugc uuuugguuaa
                                                                         60
```

```
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 45
ucuucgaagu ccaugacugc aaaaccagau aguccuaauc ucaauuauca gucccaagua
                                                                         60
<210> 46
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 46
acacucuaaa uugugguacu aagggaguaa gggcaacuac gaagacgugc aaggauaaag
                                                                         60
<210> 47
<211> 59
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 47
uuugccucga cggucugcga auagaacgcg aaccgugauu aguguacaag gauucgguu
                                                                         59
<210> 48
<211> 58
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 48
                                                                         58
gucgcagcag aaauaucauc gcaaaaccuc aauugcaucu cauguauauc uaguccaa
<210> 49
<211> 57
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 49
cgaacaucug gaguaaucau cuuaauaacc ucauuaaccu uuacacuuuc uaaacua
                                                                         57
```

```
<210> 50
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 50
ggguaagggu gagcaguuca agaugguaac uggcauucau uugaagaaag guugguagac
                                                                           60
<210> 51
<211> 60
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 51
ggguaagggu gagcaguuca agaugguaac cggcauucau uugaagaaag guugguaaac
                                                                           60
<210> 52
<211> 53
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind 
<223> RNA aptamer
<400> 52
cuugguguag uguucaagug agauauagua uaagguuauu guugugcgaa cgg
                                                                           53
<210> 53
<211> 45
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
<400> 53
augucgacuc cgucuuccuu caaaccaguu auaaauuggu uuuag
                                                                           45
<210> 54
<211> 45
<212> RNA
<213> Artificial Sequence
<220>
<221> protein bind
<223> RNA aptamer
```

gaccuc	ccgu ggcaguaggg guaaaaauua ucuuccuaca cuucu	45
<210>	55	
<211>	23	
<212>		
	Artificial Sequence	
<220>		
	prim transcript	
<223>	primer for cDNA	
<400>	55	
gggaga	ucag aauaaacgcu caa	23
<210>	56	
<211>		
<213>	Artificial Sequence	
	prim transcript	
	primer for cDNA	
<400>		
(400)		
uucgac	auga ggccccugca gggcg	25
<210>	57	
<211>	50	
<212>		
	Artificial Sequence	
<220>	· · · · · · · · · · · · · · · · · · ·	
<221>	primer bind	
	PCR primer	
<400>	57	
geegga	atto taatacgact cactataggg agatcagaat aaacgctcaa	50
<210>	58	
<211>	25	
<212> <213>	DNA Artificial Sequence	
<220>	Artificial Sequence	
<221>	primer bind	
<223>	PCR primer	
<400>	58	
cgccct	gcag gggcctcatg tcgaa	25
<210>	59	
<210>	55	
<211>	DNA	
<213>	Artificial Sequence	

```
<220>
<221> primer bind
<223> PCR primer
<400> 59
                                                                        45
ggtaatacga ctcactatag ggagtggagg aattcatcga ggcat
<210> 60
<211> 29
<212> DNA
<213> Artificial Sequence
<220>
<221> primer bind
<223> PCR primer
<400> 60
catatgcctt agcgacagca agcttctgc
                                                                        29
```